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510(K) Summary

Submitter: Cynosure, Inc.
10 Elizabeth Drive
Chelmsford, MA 01824

Contact: George Cho
Senior Vice President of Medical Technology

Date Summary Prepared: May 5, 2003

Device Trade Name: Smart CO₂

Common Name: Medical Laser System

Classification Name: Instrument, surgical, powered, laser
79-GEX
21 CFR 878.48

Equivalent Device: Luxar NovaPulse and Asclepion Multipulse

Device Description: Smart CO₂ is a CO₂ laser, having a sealed CO₂ gas tube as the lasing medium. It is a laser with a wavelength of 10.6 μm.

Laser activation is by foot switch. Overall weight of the laser is 25 Kg, and the size is 180x62x42 cm (HxWxD).

Electrical requirement is 110 VAC, 15A, 50-60 Hz, single phase.

Intended Use: The Smart CO₂ laser is indicated for incision, excision, ablation, vaporization and coagulation of body soft tissues including intraoral tissues.

Comparison: The Smart CO₂ laser is substantially equivalent to the Luxar NovaPulse and Asclepion Multipulse laser, with the same principle of operation, the same wavelength and essentially the same power range as the predicate devices for the same indications for uses.

Nonclinical Performance Data: none

Clinical Performance Data: none

Conclusion: The Smart CO₂ laser is another safe and effective device for body soft tissue, including intraoral soft tissue applications.

Additional Information: none



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

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Mr. George Cho
Senior Vice President of Medical Technology
Cynosure, Inc.
10 Elizabeth Drive
Chelmsford, Massachusetts 01824

Re: K031440
Trade/Device Name: Smart CO₂ Laser
Regulation Number: 21 CFR 878.4810
Regulation Name: Laser surgical instrument for use in general and
plastic surgery and in dermatology
Regulatory Class: II
Product Code: GEX
Dated: August 22, 2003
Received: August 25, 2003

Dear Mr. Cho:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

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This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4659. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

Miriam C. Provost
for
Celia M. Witten, Ph.D., M.D.
Director
Division of General, Restorative
and Neurological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

510(k) Number (if known): K031440

Device Name: Smart CO₂ (Smart US 20D, Smart Clinic) Laser

Indications For Use:

The Smart CO₂ surgical laser is indicated for the incision, excision, ablation, vaporization and coagulation of body soft tissues including intraoral tissues, in the medical specialties of general and plastic surgery, oral/maxillofacial surgery, dentistry, dermatology, endoscopic/laparoscopic general surgery, gastroenterology, gynecology, otorhinolaryngology, neurosurgery, oculoplastic, orthopedic, pulmonary/thoracic surgery, and urology for surgical and aesthetic applications.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Miriam E. Provost

(Division Sign-Off)

Division of General, Restorative
and Neurological Devices

510(k) Number K031440

Prescription Use

OR

Over-The-Counter Use